

# Executive Summary Report

## SMOG CHECK Statewide

July 2007

### 1. Testing Volume

	Total	Failed	Percent (%) Fail
Initial Test	807,518	101,286	12.54%
Total	934,716	130,476	13.96%

### 2. Certification Volume

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	693,034	85.82%	114,484	14.18%
Total	784,865	83.97%	149,851	16.03%

### 2a. Certification Volume (Test Only)

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	412,458	85.41%	70,457	14.59%
Total	471,032	84.32%	87,567	15.68%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Fail
Gross Polluters	18,336	2.27%
All Emissions	59,113	7.32%
All Visual	11,278	1.40%
All Functional	30,498	3.78%
OBDII	29,634	3.67%
Overall	101,286	12.54%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Enhanced	641,953	82,199	12.80%	14,519	2.26%
Partially Enhanced	37,941	5,565	14.67%	1,024	2.70%
Basic	74,694	8,216	11.00%	1,822	2.44%
Change of Ownership	5,840	828	14.18%	243	4.16%
No Program	2	0	0.00%	0	0.00%
Unknown Program	47,088	4,478	9.51%	728	1.55%
Total Program Area	807,518	101,286	12.54%	18,336	2.27%

### 5. Initial Test Failures by Station Type

Station Types	All Tests Performed	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Test Only	482,915	68,904	14.27%	13,170	2.73%
Regular	275,149	26,151	9.50%	3,992	1.45%
Basic Area Dealer	5,302	245	4.62%	38	0.72%
Gold Shield in Enhanced Area	28,688	3,659	12.75%	592	2.06%
Gold Shield in Basic Area	8,198	1,227	14.97%	294	3.59%
Gold Shield in COO Area	4,428	614	13.87%	182	4.11%
Business Fleet	16	0	0.00%	0	0.00%
Permanent Fleet Registered	75	7	9.33%	3	4.00%
Referee	621	313	50.40%	56	9.02%
Government Fleet	2,126	166	7.81%	9	0.42%
Total	807,518	101,286	12.54%	18,336	2.27%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Cert. Issued
Volunteers	234,585	208,643
Directed Vehicles	248,330	203,815
Total	482,915	412,458

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Cert. Issued
Volunteers	41,013	35,260
Directed Vehicles	301	41
Total	41,314	35,301

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## 6. Initial Tests by Vehicle Model Year

Model Year	Initial Test	Failed Overall	Percent (%) Fail Overall	Percent (%) Fail Emiss.	Percent (%) Fail G.P.	Percent (%) Fail Funct.	Percent (%) Fail Visual	Percent (%) Fail OBDII
1953	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
1965	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
1968	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
1970	4	1	25.00%	0.00%	0.00%	25.00%	25.00%	0.00%
1972	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1974	2	1	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%
1975	21	3	14.29%	9.52%	0.00%	9.52%	4.76%	0.00%
1976	1,477	400	27.08%	21.26%	10.70%	13.95%	8.87%	0.00%
1977	2,288	614	26.84%	19.84%	9.83%	12.85%	8.30%	0.00%
1978	2,627	684	26.04%	19.83%	9.25%	13.36%	7.27%	0.00%
1979	2,811	794	28.25%	22.91%	11.53%	13.30%	8.08%	0.00%
1980	1,709	480	28.09%	22.76%	11.94%	13.93%	7.78%	0.00%
1981	2,130	666	31.27%	26.15%	12.25%	15.87%	8.40%	0.00%
1982	2,482	766	30.86%	25.14%	12.09%	15.27%	8.18%	0.00%
1983	3,636	997	27.42%	22.88%	11.14%	13.70%	6.60%	0.00%
1984	6,275	1,928	30.73%	25.78%	13.02%	14.44%	7.52%	0.00%
1985	8,600	2,490	28.95%	23.91%	11.48%	14.14%	5.98%	0.00%
1986	12,222	3,242	26.53%	21.37%	9.66%	13.30%	5.24%	0.00%
1987	14,108	3,949	27.99%	23.46%	9.90%	13.10%	4.69%	0.00%
1988	17,663	4,143	23.46%	19.12%	7.40%	11.28%	3.56%	0.00%
1989	22,906	4,993	21.80%	17.04%	6.05%	10.24%	3.13%	0.00%
1990	26,776	5,359	20.01%	15.98%	5.50%	9.06%	2.39%	0.00%
1991	30,536	5,465	17.90%	14.09%	4.57%	7.97%	2.04%	0.00%
1992	30,094	5,015	16.66%	12.95%	4.08%	7.41%	1.87%	0.00%
1993	36,338	6,578	18.10%	15.03%	3.43%	6.62%	1.72%	0.00%
1994	36,855	5,616	15.24%	12.09%	2.60%	5.75%	1.67%	0.00%
1995	58,180	6,838	11.75%	8.69%	1.79%	4.72%	1.20%	0.00%
1996	36,028	6,209	17.23%	7.11%	1.19%	1.65%	1.07%	11.37%
1997	71,201	8,613	12.10%	4.33%	0.70%	1.22%	0.72%	8.21%
1998	48,170	5,436	11.29%	3.30%	0.55%	1.01%	0.72%	8.11%
1999	92,695	6,411	6.92%	1.65%	0.28%	0.50%	0.43%	5.14%
2000	39,790	3,169	7.96%	1.51%	0.30%	0.62%	0.44%	6.11%
2001	133,511	7,994	5.99%	0.63%	0.14%	0.52%	0.33%	5.01%
2002	19,453	822	4.23%	0.52%	0.11%	0.30%	0.25%	3.33%
2003	21,494	731	3.40%	0.34%	0.06%	0.31%	0.15%	2.60%
2004	8,557	315	3.68%	0.14%	0.07%	0.18%	0.19%	2.82%
2005	6,577	254	3.86%	0.43%	0.08%	0.32%	0.23%	2.92%
2006	6,125	185	3.02%	0.20%	0.07%	0.15%	0.16%	2.53%
2007	4,084	116	2.84%	0.24%	0.05%	0.12%	0.15%	2.30%
2008	89	6	6.74%	0.00%	0.00%	0.00%	0.00%	6.74%
Total Model Year	807,518	101,286	12.54%	7.32%	2.27%	3.78%	1.40%	3.67%

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## 7. Referee Activity

	Certificates Issued
Certificate of Compliance	504
Certificate of Non Compliance	2
Parts Cost	67
Hardship Extensions	102
Exempt Vehicle	33
Exempted by Directive	84
Parts Exemption	3
Unknown Outcome	0
	<b>795</b>

## 8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,299
Stations Locked-Out at Least Once	176
Stations Conducted at Least One Test	7,700

## 9. Active Technicians

		Technician Count	Daily Average
EA	Both Endorsement	10,475	5,860
EA	Gas Endorsement	15	0
EB	Both Endorsement	64	0
EB	Gas Endorsement	546	0
GU	Both Endorsement	20	0

## 10. Inspections Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	431,081	48.19	43,336	48.57	474,417	48.22
Test and Repair	187,720	46.59	83,511	44.50	271,231	45.95
Test and Repair Dealer	13	76.00	5,289	46.77	5,302	46.84
Referee	331	30.00	134	30.00	465	30.00
Gold Shield in Enhanced Area	20,850	45.98	7,710	40.98	28,560	44.63
Gold Shield in Basic Area	72	63.04	8,126	34.56	8,198	34.81
Gold Shield in COO Area	159	61.52	4,412	48.22	4,571	48.69

## 11. Repair Costs

	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,122	22.20	<b>22,939</b>	<b>206.70</b>
	\$51-150	5,778	101.06		
	\$151-250	3,691	199.05		
	\$251-450	3,918	335.19		
	Over \$450	2,430	803.10		
Cap Repairs	\$0-50	167	27.32	<b>3,258</b>	<b>336.52</b>
	\$51-150	357	103.58		
	\$151-250	518	203.18		
	\$251-450	1,217	348.99		
	Over \$450	999	525.40		
Total Repairs	\$0-50	6,382	22.41	<b>23,806</b>	<b>245.23</b>
	\$51-150	4,986	101.28		
	\$151-250	3,857	199.46		
	\$251-450	4,936	339.69		
	Over \$450	3,645	752.79		

## 12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
Cap Repairs	3,258	336.52

## 13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	55	3	0	0	0	3	1	0

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test Only	46	7	1	1	1	5	3	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	4	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	57	8	0	1	2	3	4	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	31	3	0	1	0	3	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	14,368	1,989	253	103	927	863	453	213
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	78	2	1	38	30	6	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	191	176	37	74	31	98	60	92
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	133,852	13,971	1,687	671	6,008	6,373	3,549	1,220
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	350,070	61,446	11,680	3,477	14,827	40,349	19,411	6,859
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	6	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,229	522	90	29	146	329	142	62
Acceleration Simulation Mode (ASM)	Partial	Referee	7	11	3	3	3	6	2	4
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,873	3,071	535	178	808	1,880	899	350
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	7	2	0	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,160	1,659	318	96	419	1,061	451	204
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,319	228	28	16	89	118	74	33
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	66	3	0	22	42	2	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	42	30	5	14	8	14	11	18
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,521	1,461	208	94	593	718	339	151

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,981	1,709	314	124	601	1,007	451	211
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	5,878	1,123	276	71	232	505	457	166
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	230	37	12	7	7	17	21	7
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,186	470	122	28	130	213	181	81
Two Speed Idle (TSI)	Basic	Government Fleet	0	4	1	0	3	1	0	0
Two Speed Idle (TSI)	Basic	Referee	28	33	6	15	9	12	19	19
Two Speed Idle (TSI)	Basic	Test and Repair	43,743	5,268	1,118	316	1,435	2,311	2,017	672
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,819	198	35	9	65	87	52	22
Two Speed Idle (TSI)	Basic	Test Only	7,449	1,071	251	77	308	499	317	156
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	45	7	2	1	3	4	2	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,912	404	136	23	78	239	148	54
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	108	23	6	3	4	9	10	5
Two Speed Idle (TSI)	Change of Ownership	Referee	3	5	0	3	0	1	1	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,904	260	63	18	70	119	93	33
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	51	6	0	2	2	1	2	2
Two Speed Idle (TSI)	Change of Ownership	Test Only	866	122	36	8	27	70	37	16
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	420	41	8	3	21	10	9	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	436	46	5	3	21	14	12	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,709	320	69	17	148	120	66	38
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	15	3	1	5	8	1	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	46	3	2	0	0	3	1	0
Two Speed Idle (TSI)	Enhanced	Referee	34	23	3	8	8	9	5	12
Two Speed Idle (TSI)	Enhanced	Test and Repair	21,376	1,460	256	76	722	471	333	153
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	485	18	1	1	11	2	3	2
Two Speed Idle (TSI)	Enhanced	Test Only	28,169	2,594	513	102	1,243	1,006	515	209
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	42	7	1	1	2	3	5	3
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	38	6	1	0	4	2	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	232	36	13	2	13	18	8	4

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Two Speed Idle (TSI)	Partial	Test and Repair	1,761	157	41	6	48	78	44	21
Two Speed Idle (TSI)	Partial	Test Only	774	89	22	11	34	33	27	18
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	450	40	7	4	21	10	12	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,079	117	28	11	32	59	40	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	520	71	11	6	32	22	19	12
Two Speed Idle (TSI)	Unknown Program	Permanent Fleet Registered	5	3	1	0	0	1	2	1
Two Speed Idle (TSI)	Unknown Program	Referee	21	9	2	2	0	6	1	5
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,825	499	84	32	242	155	131	50
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	515	20	2	0	14	3	4	0
Two Speed Idle (TSI)	Unknown Program	Test Only	2,937	207	35	15	114	61	40	27
UnKnown TestType	Basic	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	8	8	0	0	0	8	0	6
UnKnown TestType	Unknown Program	Referee	16	16	0	0	0	16	0	15

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